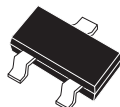


CMPT2484

**NPN SILICON
LOW NOISE TRANSISTOR**



SOT-23 CASE

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPT2484 type is an NPN silicon low noise transistor manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for low noise amplifier applications.

Marking Code is C1U.

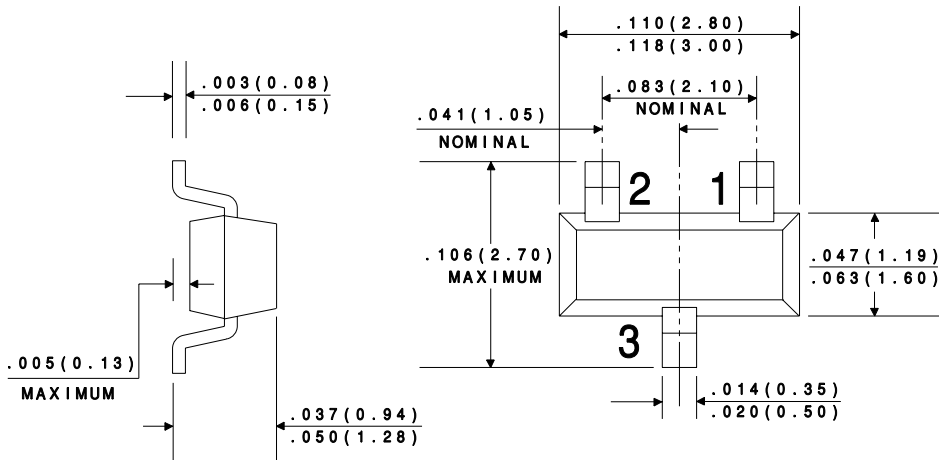
MAXIMUM RATINGS (T_A=25°C)

	SYMBOL		UNITS
Collector-Base Voltage	V _{CBO}	60	V
Collector-Emitter Voltage	V _{CEO}	60	V
Emitter-Base Voltage	V _{EBO}	6.0	V
Collector Current	I _C	50	mA
Power Dissipation	P _D	350	mW
Operating and Storage			
Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	θ _{JA}	357	°C/W

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =45V		10	nA
I _{CBO}	V _{CB} =45V, T _A =150°C		10	μA
I _{EBO}	V _{EB} =5.0V		10	nA
BV _{CBO}	I _C =10μA	60		V
BV _{CEO}	I _C =10mA	60		V
BV _{EBO}	I _E =10μA	5.0		V
V _{CE} (SAT)	I _C =1.0mA, I _B =100μA		0.35	V
V _{BE} (ON)	V _{CE} =5.0V, I _C =1.0mA		0.95	V
h _{FE}	V _{CE} =5.0V, I _C =1.0mA	250	---	
h _{FE}	V _{CE} =5.0V, I _C =10mA	---	800	
C _{ob}	V _{CB} =5.0V, I _E =0, f=1.0MHz		6.0	pF
C _{ib}	V _{EB} =0.5V, I _C =0, f=1.0MHz		6.0	pF
NF	V _{CE} =5.0V, I _C =10μA, R _S =10kΩ f=1.0kHz, BW=200Hz		3.0	dB

All dimensions in inches (mm).



LEAD CODE:

- 1) BASE
- 2) EMITTER
- 3) COLLECTOR